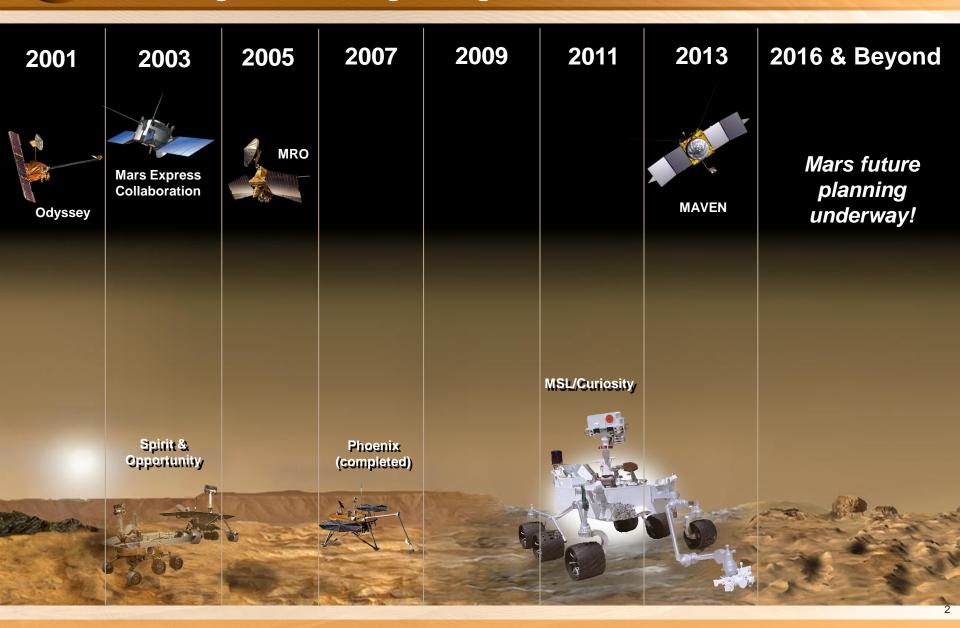


NAC-Science Committee Meeting July 23, 2012



Mars Exploration Program

An Integrated, Strategic Program



Reformulating the MEP to Enable Future Robotic and Human Exploration of Mars

- NASA is strategically aligning its science, human spaceflight, and technology objectives to:
 - Continue America's leadership in exploration of Mars within available budget
 - Enable future missions that will achieve the National Research Council's Planetary Science Decadal Survey goal of sample return
 - Prepare for eventual human expeditions to Mars, next optimal Mars –
 Earth alignment, in the 2030's
- The Mars Program Planning Group (MPPG) was established by the SMD to create options for the next step in Mars Exploration
 - Final brief to AA/SMD, AA/HEOMD, OCS, OCT in late August
 - MPPG's work is intended to influence NASA's FY14 budget process
- Communication with stakeholders continues through the process
 - Information creation is on a fast pace as MPPG nears completion

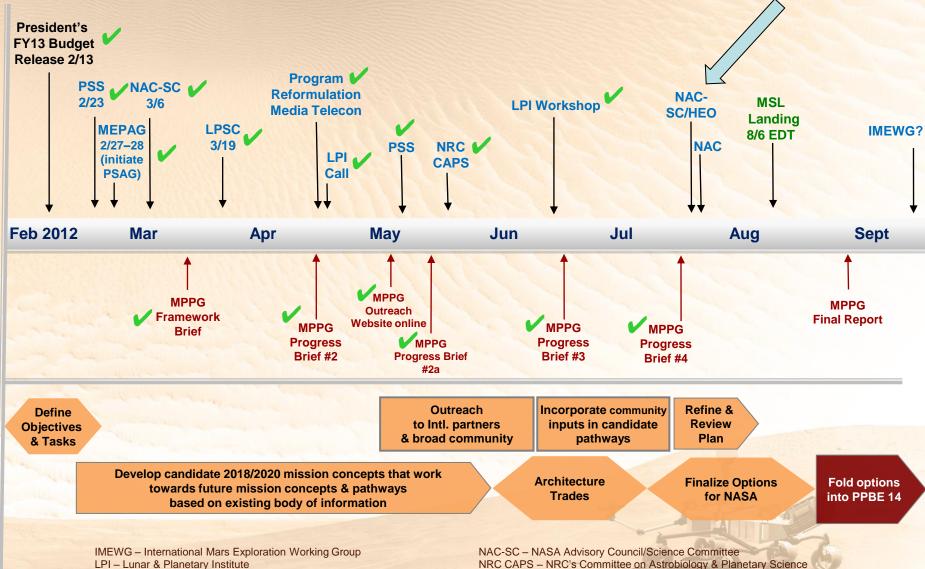
Mars Program Planning Group (MPPG)

- MPPG is providing alternative programmatic options rather than point designs
 - Particular attention to 2018/2020
- Options are consistent with priorities of the 2011 NRC Decadal Survey
 - Tempered by the realities of a budget more constrained than reflected in the National Research Council (NRC) analysis
 - Science-driven with collaboration with Human Exploration & Operations Mission Directorate and Office of the Chief Technologist
- Collaboration with HEOMD is responsive to the President's challenge of human travel to the Mars system in the 2030's
- Enabling technologies are a critical part of a future Mars program
 - LPI workshop was very helpful for MPPG with new technology/technical ideas and concepts
 - OCT is currently funding technologies of benefit to robotic and human Mars exploration (examples: atomic clock, supersonic decelerators)



LPSC - Lunar & Planetary Science Conference

MEPAG - Mars Exploration Program Analysis Group

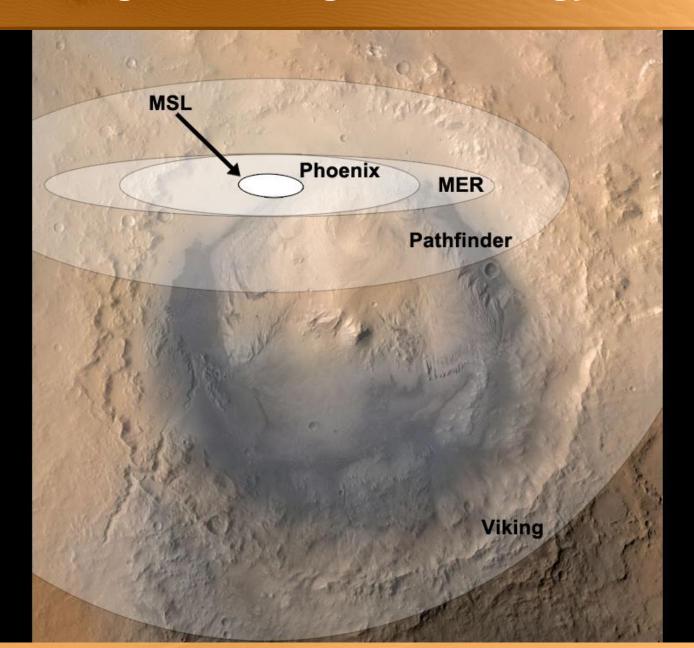


PSS - Planetary Science Subcommittee of NAC

NRC - National Research Council

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Advantage of Strategic Technology Investment



Mars Science Laboratory

